

## Product datasheet for **TP710017**

### ATF2 (NM\_001880) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human activating transcription factor 2 (ATF2), full length, with C-terminal polyhistidine tag, expressed in sf9 cells.
Species:	Human
Expression Host:	Sf9
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC218983, encoding human full-length ATF2
Tag:	C-His
Predicted MW:	55 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 150 mM NaCl, 20% glycerol
Bioactivity:	In vitro kinase assay substrate (PMID: <a href="#">28298524</a> )
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_001871</a>
Locus ID:	1386
UniProt ID:	<a href="#">P15336</a>
RefSeq Size:	2117
Cytogenetics:	2q31.1
RefSeq ORF:	1515
Synonyms:	CRE-BP1; CREB-2; CREB2; HB16; TREB7


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**Summary:**

This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. This protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro; thus it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. The encoded protein may also be involved in cell's DNA damage response independent of its role in transcriptional regulation. Several alternatively spliced transcript variants have been found for this gene [provided by RefSeq, Jan 2014]

**Protein Families:**

Druggable Genome, Transcription Factors

**Protein Pathways:**

MAPK signaling pathway

**Product images:**
